



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 137435

To: Roy Teller  
Location: REM-3D18  
Art Unit: 1654  
Friday, November 12, 2004

*3C18*

Case Serial Number: 09/743533

From: Beverly Shears  
Location: Remsen Bldg.  
RM 1A54  
Phone: 571-272-2528

beverly.shears@uspto.gov

### Search Notes



## STIC-Biotech/ChemLib

From: Unknown [unknown.com]  
Sent: Tuesday, November 09, 2004 8:21 AM  
To: STIC-Biotech/ChemLib  
Subject: General response

CRFF

ResponseHeader=Special Database Search Request

AccessDB#=

LogNumber=

Searcher=

SearcherPhone=

SearcherBranch=

MyDate=Tue Nov 9 08:01:04 2004

submitto=BiotechLib@ptc.org

Name=Roy Teller

Empno=79445

Phone=571-272-0900

Artunit=1654

Office=Rem-3D18

Serialnum=09/743,000

PatClass=435/66

Earliest=7/12/99

Format1=paper

Format3=email

Searchtopic= Please perform reference search of SEQ ID NO: 19. Thank you.

Comments=

send=SEND

19-158aa

## STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2- \_\_\_\_\_  
Date Searcher Picked up: \_\_\_\_\_  
Date Completed: \_\_\_\_\_  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

Type of Search  
NA Sequence: # \_\_\_\_\_  
AA Sequence: # \_\_\_\_\_  
Structure: # \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

Vendors and cost where applicable  
STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUEST/ORBIS: \_\_\_\_\_  
LEXIS/NECIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (Specify): \_\_\_\_\_

Date completed: \_\_\_\_\_

Searcher: Beverly e 2528

Terminal time: \_\_\_\_\_

Elapsed time: \_\_\_\_\_

CPU time: \_\_\_\_\_

Total time: \_\_\_\_\_

Number of Searches: \_\_\_\_\_

Number of Databases: \_\_\_\_\_

## Search Site

\_\_\_\_\_ STIC

\_\_\_\_\_ CM-I

\_\_\_\_\_ Pre-S

## Type of Search

\_\_\_\_\_ N.A. Sequence

\_\_\_\_\_ A.A. Sequence

\_\_\_\_\_ Structure

\_\_\_\_\_ Bibliographic

## vendors

\_\_\_\_\_ IG

\_\_\_\_\_ STN

\_\_\_\_\_ Dialog

\_\_\_\_\_ APS

\_\_\_\_\_ Geninfo

\_\_\_\_\_ SDC

\_\_\_\_\_ DARC/Questel

✓ Other CGN



Teller, R  
091743533  
Seq ID 19 Interf

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 10, 2004, 19:14:39 ; Search time 468 Seconds

(without alignments)  
374.068 Million cell updates/sec

Title: US-09-743-533-19

Perfect score: 906

Sequence: 1 MRQLNPLCSQELSPQSQYIQ.....PFPPQPPVPPQASCINSMV 159

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 6730630 seqs, 1107998698 residues

Total number of hits satisfying chosen parameters: 6730630

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Pending Patents AA Main:\*

- 1: /cgn2\_6/prodata1/paa/US06 COMB.pcp.\*
- 2: /cgn2\_6/prodata1/paa/US06 COMB.pcp.\*
- 3: /cgn2\_6/prodata1/paa/US07 COMB.pcp.\*
- 4: /cgn2\_6/prodata1/paa/US08 COMB.pcp.\*
- 5: /cgn2\_6/prodata1/paa/US08 COMB.pcp.\*
- 6: /cgn2\_6/prodata1/paa/US08 COMB.pcp.\*
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- 31: /cgn2\_6/prodata1/paa/US09 COMB.pcp.\*
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- 36: /cgn2\_6/prodata1/paa/US09 COMB.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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Result No.	Score	Query Match	Length	DB	ID	Description
1	906	100.0	158	21	US-09-743-533-19	Sequence 19, Appl
2	517.5	57.1	160	31	US-10-508-263-110	Sequence 110, App
3	412	45.5	327	33	US-10-739-930-9623	Sequence 9623, App
4	405.5	44.8	186	31	US-10-508-263-111	Sequence 111, App
5	351	38.7	282	30	US-10-474-955-101	Sequence 101, App
6	347	38.3	279	30	US-10-474-955-97	Sequence 97, App
7	347	38.3	279	30	US-10-474-955-98	Sequence 98, Appl
8	347	38.3	279	30	US-10-739-930-9621	Sequence 9621, Ap
9	343	37.9	279	30	US-10-474-955-99	Sequence 99, Appl
10	337	37.2	279	30	US-10-474-955-100	Sequence 100, App
11	302	33.3	286	15	US-09-146-703-15	Sequence 16, Appl
12	302	33.3	286	15	US-09-146-703A-16	Sequence 16, Appl
13	302	33.3	286	20	US-09-683-666-16	Sequence 16, Appl
14	297	32.8	283	15	US-09-146-703-18	Sequence 18, Appl
15	270	29.8	298	33	US-10-739-930-9770	Sequence 9770, Ap
16	267.5	29.5	289	15	US-09-146-703-19	Sequence 19, Appl
17	264	29.1	288	15	US-09-146-703-17	Sequence 17, Appl
18	264	29.1	288	15	US-09-146-703A-17	Sequence 17, Appl
19	264	29.0	271	15	US-09-146-703-14	Sequence 14, Appl
20	262.5	29.0	271	15	US-09-146-703A-14	Sequence 14, Appl
21	262.5	29.0	271	15	US-09-683-666-14	Sequence 14, Appl
22	262.5	29.0	271	1	PCT-US99-27508-2	Sequence 2, Appli
23	262.5	29.0	1162	27	US-10-194-046-2	Sequence 2, Appli
24	262.5	29.0	1162	27	US-10-294-804-2	Sequence 2, Appli
25	262.5	29.0	1162	28	US-10-294-804-2	Sequence 2, Appli
26	256	28.3	273	15	US-09-146-703-15	Sequence 15, Appl
27	256	28.3	273	15	US-09-146-703A-15	Sequence 15, Appl
28	246	28.3	273	20	US-09-683-666-15	Sequence 15, Appl
29	246	27.2	1351	28	US-10-282-122A-75147	Sequence 75147, A
30	244.5	27.0	1343	28	US-10-282-122A-75965	Sequence 75965, A
31	244.5	27.0	1362	1	PCT-US02-03987-14009	Sequence 14009, A
32	244.5	27.0	1362	23	US-09-815-242-14009	Sequence 14009, A
33	244.5	27.0	1362	26	US-10-072-851-14009	Sequence 14009, A
34	236.5	26.1	319	33	US-10-739-930-9619	Sequence 9619, Ap
35	234	25.8	266	26	PCT-US03-37434-16	Sequence 16, Appl
36	233.5	25.8	287	33	US-10-739-930-9777	Sequence 9777, Ap
37	233.5	25.8	287	33	US-60-556-841-9570	Sequence 9570, Ap
38	224	24.7	1758	36	US-10-425-115-208032	Sequence 208032, A
39	223	24.6	309	30	US-10-425-115-208032	Sequence 208032, A
40	222	24.5	181	30	US-10-449-902-32597	Sequence 32597, A
41	222	24.5	181	30	US-10-449-902-51824	Sequence 51824, A
42	222	24.5	296	1	PCT-US04-05654-824	Sequence 824, App
43	222	24.5	296	22	US-09-789-054A-10	Sequence 10, Appl
44	222	24.5	296	27	US-10-155-881-27802	Sequence 27802, A
45	222	24.5	296	29	US-10-374-780A-824	Sequence 824, App

#### ALIGNMENTS

RESULT 1  
US-09-743-533-19  
; Sequence 19, Application US/09743533  
; GENERAL INFORMATION:  
; APPLICANT: Commonwealth Scientific and Industrial Research Organisation  
; TITLE OF INVENTION: Modified Proteins  
; FILE REFERENCE: A-70233/RPT  
; CURRENT APPLICATION NUMBER: US/09/743,533  
; CURRENT FILING DATE: 2001-01-10  
; PRIOR APPLICATION NUMBER: AU PP4604  
; PRIOR FILING DATE: 1998-08-10  
; NUMBER OF SEQ IDS NOS: 26  
; SOFTWARE: FASTSEQ for Windows Version 3.0  
; SEQ ID NO 19  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: unknown  
US-09-743-533-19

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Query Match      100.0%; Score 906; DB 21; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.6e-63;
Matches 158; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRQLNPSQELQSQOQSYLQOYPQNPYLQKPFPPVQOQPFHTPQOYFPYLPPEELFPQYQI 60
DB 1 MRQLNPSQELQSQOQSYLQOYPQNPYLQKPFPPVQOQPFHTPQOYFPYLPPEELFPQYQI 60
QY 61 PTPLOQOQPFPPQOQPLPRQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQ 120
DB 61 PTPLOQOQPFPPQOQPLPRQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQ 120
QY 121 QOIIFFQOQSQSYVQOQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQ 158
DB 121 QOIIFFQOQSQSYVQOQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQ 158

RESULT 2
US-10-508-263-110
; Sequence 110, Application US/10508263
; GENERAL INFORMATION:
; APPLICANT: BASF Plant Science GmbH
; TITLE OF INVENTION: Constructs and methods for regulating gene expression
; FILE REFERENCE: 53262-20085.00
; CURRENT APPLICATION NUMBER: US/10/508,263
; CURRENT FILING DATE: 2004-09-20
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Hordeum vulgare
US-10-508-263-110

Query Match      57.1%; Score 517.5; DB 31; Length 160;
Best Local Similarity 66.2%; Pred. No. 7.4e-33;
Matches 102; Conservative 8; Mismatches 19; Indels 25; Gaps 5;

QY 2 RQLNPSQELQSP-----QOQSYLQOYPQNPYLQKPFPPVQOQPFHTPQOYFPYLPPEELF 55
DB 21 RQLNPSQELQSPQOQPLKQOQSYLQOYPQNPYLQKPFPP-----TPQOYFPYLPQQT 74
QY 56 PQYQIPTLPLOQOQF-----PQOQPLPRQOQPFPPQOQPFPPQOQPFPPQOQPFPPQO 111
DB 75 PPSQOQNPLOQOQFPPQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQPFPPQOQ 134
QY 112 PQOQPFPPQOQIIFQOQSQSYVQOQOQPFPPQOQ 145
DB 135 PQOQFPP-----PQOQFPPQOQPFPPQOQ 159

RESULT 3
US-10-739-930-9623
; Sequence 9623, Application US/10739930
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9623
; LENGTH: 327
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-C125_84.p
US-10-739-930-9623

Query Match      45.5%; Score 412; DB 33; Length 327;
Best Local Similarity 50.0%; Pred. No. 3.2e-24;

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Matches 97; Conservative 12; Mismatches 37; Indels 48; Gaps 10;

QY 3 QLNPCSQE--LQSPQOQSYLQOYPQNPYLQKPFPPVQOQPFHTPQOYFPYLPPEELFPQYQI 60
DB 22 QVDPGQVQWLQQLVPQLQQPLSQP-----QQTFFPQOQTFPHQOQOQVPPQOQ 72
QY 61 PTP--LQOQOQPFPPQOQPLP---RPQOQFPPWQOQOQPFPP---OPQEPDQOQOQPFPP--Q 110
DB 73 PQOQFLOQOQOQPFPPQOQPFPPQOQOQPFPPQOQOQPFPPQOQOQPFPPQOQOQPFPPQO 132
QY 111 QOQOQFPP--QOQOQIIFQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQO 151
DB 133 QOQOQFPPQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQO 191
QY 152 -----SCINSMV 158
DB 192 CKPASLVSLWSII 205

RESULT 4
US-10-508-263-111
; Sequence 111, Application US/10508263
; GENERAL INFORMATION:
; APPLICANT: BASF Plant Science GmbH
; TITLE OF INVENTION: Constructs and methods for regulating gene expression
; FILE REFERENCE: 53262-20085.00
; CURRENT APPLICATION NUMBER: US/10/508,263
; CURRENT FILING DATE: 2004-09-20
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 111
; LENGTH: 186
; TYPE: PRT
; ORGANISM: Hordeum vulgare
US-10-508-263-111

Query Match      44.8%; Score 405.5; DB 31; Length 186;
Best Local Similarity 60.5%; Pred. No. 6e-24;
Matches 89; Conservative 10; Mismatches 25; Indels 23; Gaps 9;

QY 20 QOQYQNPYLQKPFPP-VQOQF-HTPQOQYFPYLPPEELFPQY-QIPTLPLOQOQPFPPQOQ 76
DB 5 QOQFPLQ---PQLPFPQOQFQIGQOQKQPLQOQOQTIPOQOQPFPPQOQPFPPQOQ 61
QY 77 PLP-----RQOQFPPWQOQOQFPPQOQOQPIQ-QOQOQFPPQOQOQFPPQOQOQIIFQ 126
DB 62 PLQOQOQOQIISQOQOQFPPQOQFPPQOQ-PFPQEQOQAFPLQOQOQFPPQOQFPPQOQ 120
QY 127 QOQSYVQOQOQFPPQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQO 150
DB 121 QP---FPLQOQOQFPPQOQOQFPPQOQ 144

RESULT 5
US-10-474-955-101
; Sequence 101, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drifhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; APPLICANT: Ludwig, Solid Magne
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS AN
; FILE REFERENCE: 2799/71244-PCT-US
; CURRENT APPLICATION NUMBER: US/10/474,955
; CURRENT FILING DATE: 2003-10-13
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 101
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Amino acid sequence of GAMMA-1
US-10-474-955-101

Query Match      38.7%; Score 351; DB 30; Length 282;
Best Local Similarity 51.0%; Pred. No. 1.8e-19;
Matches 80; Conservative 10; Mismatches 31; Indels 36; Gaps 7;

QY 31 QKPFVQPFHTPQYFYPLPEELFPQYQIPTLPQPF--PQPFQPLPRPQQPFPMQ 88
DB 10 QVWPQPFQPFPHQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQ 69

QY 89 PQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 143
DB 70 PQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 122

QY 144 PQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 158
DB 123 QPSLIQQSILQQLNPKCNFLQCKPVSLSVSLWSMI 159

RESULT 6
US-10-474-955-97
; Sequence 97, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drijfhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS A
; TITLE OF INVENTION: DQ BINDING PROLAMINE-DERIVED PEPTIDES
; FILE REFERENCE: 2799/71244-PCT-US
; CURRENT APPLICATION NUMBER: US/10/474,955
; CURRENT FILING DATE: 2003-10-13
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 97
; LENGTH: 279
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus amino acid sequence
US-10-474-955-97

Query Match      38.3%; Score 347; DB 30; Length 279;
Best Local Similarity 45.0%; Pred. No. 3.7e-19;
Matches 86; Conservative 11; Mismatches 24; Indels 70; Gaps 11;

QY 3 QLNPCSELQSPQSYLQPFYQNPVLPQKPFVQPFHTPQYFYPLPEELFPQYQIPT 62
DB 4 QVDPSSQ-VQWPO-----QQVFPQ-----PHQPFSSQ-----PQOTFP----- 35

QY 63 PLQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 120
DB 36 --QPQTFPHQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQ 88

QY 121 QQII-----FQPFQSY--PVQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 150
DB 89 QQLFPQSQQQQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQ 148

QY 151 ---ASCIWSMV 158
DB 149 VSLVSSLWSMI 159

RESULT 8
US-10-739-930-9621
; Sequence 9621, Application US/10739930
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9621
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAE-23APR03-C125_65.p
US-10-739-930-9621

Query Match      38.3%; Score 347; DB 33; Length 298;
Best Local Similarity 45.0%; Pred. No. 4e-19;
Matches 86; Conservative 11; Mismatches 24; Indels 70; Gaps 11;

QY 3 QLNPCSELQSPQSYLQPFYQNPVLPQKPFVQPFHTPQYFYPLPEELFPQYQIPT 62
DB 22 QVDPSSQ-VQWPO-----QQVFPQ-----PHQPFSSQ-----PQOTFP----- 53

QY 63 PLQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 120
DB 54 --QPQTFPHQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQ 106

QY 121 QQII-----FQPFQSY--PVQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 150
DB 107 QQLFPQSQQQQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQ 166

QY 151 ---ASCIWSMV 158
DB 167 VSLVSSLWSMI 177
```

```
; OTHER INFORMATION: Amino acid sequence of GAMMA-1
US-10-474-955-101

Query Match      38.7%; Score 351; DB 30; Length 282;
Best Local Similarity 51.0%; Pred. No. 1.8e-19;
Matches 80; Conservative 10; Mismatches 31; Indels 36; Gaps 7;

QY 31 QKPFVQPFHTPQYFYPLPEELFPQYQIPTLPQPF--PQPFQPLPRPQQPFPMQ 88
DB 10 QVWPQPFQPFPHQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQ 69

QY 89 PQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 143
DB 70 PQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 122

QY 144 PQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 158
DB 123 QPSLIQQSILQQLNPKCNFLQCKPVSLSVSLWSMI 159

RESULT 6
US-10-474-955-97
; Sequence 97, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drijfhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS A
; TITLE OF INVENTION: DQ BINDING PROLAMINE-DERIVED PEPTIDES
; FILE REFERENCE: 2799/71244-PCT-US
; CURRENT APPLICATION NUMBER: US/10/474,955
; CURRENT FILING DATE: 2003-10-13
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 97
; LENGTH: 279
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus amino acid sequence
US-10-474-955-97

Query Match      38.3%; Score 347; DB 30; Length 279;
Best Local Similarity 45.0%; Pred. No. 3.7e-19;
Matches 86; Conservative 11; Mismatches 24; Indels 70; Gaps 11;

QY 3 QLNPCSELQSPQSYLQPFYQNPVLPQKPFVQPFHTPQYFYPLPEELFPQYQIPT 62
DB 4 QVDPSSQ-VQWPO-----QQVFPQ-----PHQPFSSQ-----PQOTFP----- 35

QY 63 PLQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 120
DB 36 --QPQTFPHQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQ 88

QY 121 QQII-----FQPFQSY--PVQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 150
DB 89 QQLFPQSQQQQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQ 148

QY 151 ---ASCIWSMV 158
DB 149 VSLVSSLWSMI 159

RESULT 7
US-10-474-955-98
; Sequence 98, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drijfhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; APPLICANT: Ludvig, Stephan N.
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS A
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Fri Nov 12 16:26:53 2004

us-09-743-533-19.rapm

Page 6

Db 258 PQQLPQ 263

Search completed: November 10, 2004, 19:41:52  
Job time : 469 secs

Result No.	Query %		Length	DB	ID	Description
	Score	Match				
1	204	22.5	1404	6	US-10-868-577A-55	Sequence 55, Appl
2	190.5	21.0	1864	6	US-10-732-923-2391	Sequence 2391, Ap
3	182	20.1	728	6	US-10-732-923-6679	Sequence 6679, Ap
4	178	19.6	626	6	US-10-732-923-16091	Sequence 16091, A
5	170.5	18.8	1003	6	US-10-732-923-3319	Sequence 3319, Ap
6	163	18.0	648	6	US-10-732-923-10742	Sequence 10742, A
7	156.5	17.3	2063	6	US-10-873-858-8	Sequence 8, Appl
8	156	17.2	5322	6	US-10-732-923-8729	Sequence 8729, Ap
9	155	17.1	958	1	PCT-US04-14421-179	Sequence 174, App
10	154.5	17.1	1634	6	US-10-732-923-8723	Sequence 8723, Ap
11	154.5	17.1	1638	6	US-10-732-923-8722	Sequence 8722, Ap
12	154.5	17.1	1638	6	US-10-732-923-8724	Sequence 8724, Ap
13	153	16.9	866	6	US-10-510-021-66	Sequence 56, Appl
14	152	16.8	888	6	US-10-965-898-54	Sequence 54, Appl
15	152	16.8	1534	6	US-10-732-923-8754	Sequence 8754, Ap
16	150.5	16.6	514	6	US-10-732-923-16074	Sequence 16074, A
17	150.5	16.6	521	6	US-10-732-923-16073	Sequence 16073, A
18	147	16.2	1568	6	US-10-732-923-8810	Sequence 8810, Ap
19	147	16.2	1586	6	US-10-732-923-8809	Sequence 8809, Ap
20	147	16.2	1586	6	US-10-732-923-8811	Sequence 8811, Ap
21	146.5	16.2	143	6	US-10-320-366A-13096	Sequence 13096, A
22	146	16.1	1572	6	US-10-732-923-8812	Sequence 8812, Ap
23	146	16.1	2414	6	US-10-732-923-18449	Sequence 18449, A
24	145	16.0	1038	6	US-10-967-092-151	Sequence 151, App
25	144.5	15.9	2245	6	US-10-732-923-18446	Sequence 18446, A

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; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 2391
; LENGTH: 1864
; TYPE: PRT
; ORGANISM: Burkholderia fungorum
US-10-732-923-2391

Query Match      21.0%; Score 190.5; DB 6; Length 1864;
Best Local Similarity 28.5%; Pred. No. 1.7e-08;
Matches 69; Conservative 11; Mismatches 59; Indels 103; Gaps 12;

QY 5 NPCQELSPQSVLQQYPQNPVLPKPFVQVQFHTPQVFPYLP----- 51
Db 1169 NAARASLPYSSSLFTQVFNYP--PPTQAPYVAPYTAPAQ--PYAENRAPAALPYNAPR 1225
QY 52 -----BELFPYQIPTPLQPO-----QFPQPOQPLPRPQPPFPWP-----QPP 94
Db 1226 QGADSGGYQAYGSSGAPLQYPGQGP--PQPOAQVPMQQAQYVNPAYPQAPYP 1284
QY 95 QPQPIPOQPO-----QFP-----QPP-----QPP----- 112
Db 1285 QQAQAPYQACYGAPDGYATPQWMSPAAREAQTNAGSMQOQPYGAPCASTKRPAGKQK 1344
QY 113 -----QFPQPOQIIFQOP-----QQSYVQPOQPPFPQOPV 148
Db 1345 ASKNSRNAPAYAAQYQOQOQYPOQ--QAYIGQAYAQOQOQYPOQYQY--QYPPQ 1401
QY 149 QQ 150
Db 1402 QQ 1403

```

```

RESULT 3
US-10-732-923-6679
; Sequence 6679, Application US/10732923
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 6679
; LENGTH: 728
; TYPE: PRT
; ORGANISM: Candida tropicalis
US-10-732-923-6679

Query Match      20.1%; Score 182; DB 6; Length 728;
Best Local Similarity 36.6%; Pred. No. 3.2e-08;
Matches 63; Conservative 10; Mismatches 65; Indels 34; Gaps 11;

QY 6 PCSQELSPQSVLQQYPQNPVLPKPFVQVQFHTPQVFPYLPBELFPYQIPTPLQ 65
Db 187 PMYQYBIPQONITYDYNLN-----MNFQQQPPPPPPPPQPFMYNNQ--PQ-PVPPPLP 238
QY 66 PQPFPQPOQPLPRPQ-----QFPQPOQPP-----QPEPIQPOQ-----PFP----- 109
Db 239 PFPPLAAN--QQLLPTQFVYGVYFQVGSIIIPQSQPQ--PVQPPQAAAPVPSGVTVQ 296
QY 110 -----QQPQPPFPQOP--QQIIFQPOQ-----SYVQPOQPPFPQOPVQQAQC 153
Db 297 FTNFSQPPSPSQP--SQMNLQPSQNSASNTFQIQOP--PQHVPPPTKQDC 348

```

```

RESULT 4
US-10-732-923-16091
; Sequence 16091, Application US/10732923
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D

```

```

; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 16091
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-10-732-923-16091

```

```

Query Match      19.6%; Score 178; DB 6; Length 626;
Best Local Similarity 29.7%; Pred. No. 5.8e-08;
Matches 60; Conservative 15; Mismatches 46; Indels 81; Gaps 9;

QY 1 MEQLNP-----CSQELSPQSVLQQYPQNPVLPKPFVQVQFHTPQVFPYLP 52
Db 164 IRLRPGQVVRPAGVAGLQ-----RSFVSPPIYNSQP-----PA 201
QY 53 ELFPYQIPTPLQPOQPPFPQOPPLPRPQPPFPWQPOQPP----- 94
Db 202 SWAPTHGLPTQLHFOYF--QPSQPPAHSMQOQFEDQRSPLPTFVSQPPHRAHSTS 259
QY 95 -----QPEP-----IPQPOQ-----PFPQPOQPPFPQOPQIIF 125
Db 260 PPELQPGIQQOQVHRHSASQVHQALPQOPQORLPSANMSPPPPPQPAQPPQOQOHRH 319
QY 126 QOPQ--QSYVQPOQPPFPQOP 146
Db 320 QQQQPSQMPNQLQD--PAPPXP 340

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```

RESULT 5
US-10-732-923-3319
; Sequence 3319, Application US/10732923
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 3319
; LENGTH: 1003
; TYPE: PRT
; ORGANISM: Kaposi's sarcoma-associated herpesvirus
US-10-732-923-3319

```

```

Query Match      18.8%; Score 170.5; DB 6; Length 1003;
Best Local Similarity 46.7%; Pred. No. 4e-07;
Matches 43; Conservative 7; Mismatches 39; Indels 3; Gaps 2;

QY 56 PQYIPTPLQPOQPPFPQOPQPLPRPQPPFPWQ--PQPPFPQOPPIPPQOPFPQOPQ 113
Db 434 PQQEPQOQEPQOQEPQ--QEPQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQ 492
QY 114 QPFPQOQIIFQOQSYVQPOQPPFPQOP 145
Db 493 EQQDEQQDEQQDEQQDEQQDEQQDEQQDE 524

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RESULT 6
US-10-732-923-10742
; Sequence 10742, Application US/10732923
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923

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; CURRENT FILING DATE: 2003-12-10  
 ; PRIOR APPLICATION NUMBER: 10/310,154  
 ; PRIOR FILING DATE: 2002-12-04  
 ; NUMBER OF SEQ ID NOS: 24149  
 ; SEQ ID NO 8723  
 ; LENGTH: 1634  
 ; TYPE: PRT  
 ; ORGANISM: Drosophila melanogaster  
 US-10-732-923-8723

Query Match 17.1%; Score 154.5; DB 6; Length 1634;  
 Best Local Similarity 31.9%; Pred. No. 1.4e-05;  
 Matches 58; Conservative 9; Mismatches 68; Indels 47; Gaps 7;  
 QY 6 PCSQELSPQOSYLQOYPQNPYLP-----QKPPFVQOPFH-----TPQ 44  
 Db 193 PISMOMQALQAQQPPGPIGPGAGPPGSGHAGQPPVPPQOQQPPPSAGTTP 252  
 QY 45 Q-----YFYLPELFFQYQIPTLPQOQFFPQOQ-----PLPRPQOQFFPQOQ 92  
 Db 253 QCTTPASNPYGPVPGQXQVAPPFPHMQOQGLPFPQVGGPPPIQOQPPQOQQQ 312  
 QY 93 FPQOERIPQOQOQPPFQOQPPQOQIIFQOQOQSVFVQO-----QPPQOQ 144  
 Db 313 -SQPPPEPHQHLPNGKPLSMGPGSGQPLI-----PSSPMQPVGRGTLPGMPGSGV 366  
 QY 145 QP 146  
 Db 367 QP 368

## RESULT 11

US-10-732-923-8722  
 ; Sequence 8722, Application US/10732923

; GENERAL INFORMATION:  
 ; APPLICANT: Edgerton, Michael D  
 ; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
 ; FILE REFERENCE: 38-15(52796)C  
 ; CURRENT APPLICATION NUMBER: US/10/732,923  
 ; PRIOR FILING DATE: 2003-12-10  
 ; PRIOR APPLICATION NUMBER: 10/310,154  
 ; PRIOR FILING DATE: 2002-12-04  
 ; NUMBER OF SEQ ID NOS: 24149  
 ; SEQ ID NO 8722  
 ; LENGTH: 1638  
 ; TYPE: PRT  
 ; ORGANISM: Drosophila melanogaster  
 US-10-732-923-8722

Query Match 17.1%; Score 154.5; DB 6; Length 1638;  
 Best Local Similarity 31.9%; Pred. No. 1.4e-05;  
 Matches 58; Conservative 9; Mismatches 68; Indels 47; Gaps 7;  
 QY 6 PCSQELSPQOSYLQOYPQNPYLP-----QKPPFVQOPFH-----TPQ 44  
 Db 197 PISMOMQALQAQQPPGPIGPGAGPPGSGHAGQPPVPPQOQQPPPSAGTTP 256  
 QY 45 Q-----YFYLPELFFQYQIPTLPQOQOQFFPQOQ-----PLPRPQOQFFPQOQ 92  
 Db 257 QCTTPASNPYGPVPGQXQVAPPFPHMQOQGLPFPQVGGPPPIQOQPPQOQQQ 316  
 QY 93 FPQOERIPQOQOQPPFQOQPPQOQIIFQOQOQSVFVQO-----QPPQOQ 144  
 Db 317 -SQPPPEPHQHLPNGKPLSMGPGSGQPLI-----PSSPMQPVGRGTLPGMPGSGV 370  
 QY 145 QP 146  
 Db 371 QP 372

## RESULT 12

US-10-732-923-8724  
 ; Sequence 8724, Application US/10732923

; GENERAL INFORMATION:  
 ; APPLICANT: Edgerton, Michael D  
 ; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
 ; FILE REFERENCE: 38-15(52796)C  
 ; CURRENT APPLICATION NUMBER: US/10/732,923  
 ; CURRENT FILING DATE: 2003-12-10  
 ; PRIOR APPLICATION NUMBER: 10/310,154  
 ; PRIOR FILING DATE: 2002-12-04  
 ; NUMBER OF SEQ ID NOS: 24149  
 ; SEQ ID NO 8724  
 ; LENGTH: 1638  
 ; TYPE: PRT  
 ; ORGANISM: Drosophila melanogaster  
 US-10-732-923-8724

Query Match 17.1%; Score 154.5; DB 6; Length 1638;  
 Best Local Similarity 31.9%; Pred. No. 1.4e-05;  
 Matches 58; Conservative 9; Mismatches 68; Indels 47; Gaps 7;  
 QY 6 PCSQELSPQOSYLQOYPQNPYLP-----QKPPFVQOPFH-----TPQ 44  
 Db 197 PISMOMQALQAQQPPGPIGPGAGPPGSGHAGQPPVPPQOQQPPPSAGTTP 256  
 QY 45 Q-----YFYLPELFFQYQIPTLPQOQOQFFPQOQ-----PLPRPQOQFFPQOQ 92  
 Db 257 QCTTPASNPYGPVPGQXQVAPPFPHMQOQGLPFPQVGGPPPIQOQPPQOQQQ 316  
 QY 93 FPQOERIPQOQOQPPFQOQPPQOQIIFQOQOQSVFVQO-----QPPQOQ 144  
 Db 317 -SQPPPEPHQHLPNGKPLSMGPGSGQPLI-----PSSPMQPVGRGTLPGMPGSGV 370  
 QY 145 QP 146  
 Db 371 QP 372

## RESULT 13

US-10-510-021-66  
 ; Sequence 66, Application US/10510021

; GENERAL INFORMATION:  
 ; APPLICANT: Cole, Stewart  
 ; APPLICANT: Pym, Alexander S  
 ; APPLICANT: Brosch, Roland  
 ; APPLICANT: Brodin, Priscille  
 ; APPLICANT: Majlessi, Laïeh  
 ; APPLICANT: Demangel, Caroline  
 ; APPLICANT: Leclerc, Claude  
 ; TITLE OF INVENTION: Identification of virulence associated regions RD1 and  
 ; TITLE OF INVENTION: RD5 leading to improve vaccine of M. bovis BCG and M.  
 ; TITLE OF INVENTION: microti  
 ; FILE REFERENCE: D20217  
 ; CURRENT APPLICATION NUMBER: US/10/510,021  
 ; CURRENT FILING DATE: 2004-10-01  
 ; PRIOR APPLICATION NUMBER: PCT/IB03/01789  
 ; PRIOR FILING DATE: 2003-04-01  
 ; PRIOR APPLICATION NUMBER: EP 02/290864  
 ; PRIOR FILING DATE: 2002-04-05  
 ; NUMBER OF SEQ ID NOS: 75  
 ; SOFTWARE: PatentIn ver. 2.1  
 ; SEQ ID NO 66  
 ; LENGTH: 666  
 ; TYPE: PRT  
 ; ORGANISM: mycobacterium tuberculosis  
 ; FEATURES:  
 ; OTHER INFORMATION: Protein sequence Rv3876  
 US-10-510-021-66

Query Match 16.9%; Score 153; DB 6; Length 666;  
 Best Local Similarity 30.5%; Pred. No. 7.1e-06;  
 Matches 51; Conservative 12; Mismatches 74; Indels 30; Gaps 9;  
 QY 6 PCSQELSPQOSYLQOYPQNPYLP-----QKPPFVQOPFH-----TPQ 44



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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 10, 2004, 19:13:39 ; Search time 38 Seconds  
(without alignments)  
275.743 Million cell updates/sec

Title: US-09-743-533-19

Perfect score: 906

Sequence: 1 MRQLNCSQELQSPQSYLQ.....PPFQQPVPQQAQSCIMXV 158

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

- 1: /cgn2\_6/ptodata/1/iaa/5A COMB.pdp.\*
- 2: /cgn2\_6/ptodata/1/iaa/5B COMB.pdp.\*
- 3: /cgn2\_6/ptodata/1/iaa/6A COMB.pdp.\*
- 4: /cgn2\_6/ptodata/1/iaa/6B COMB.pdp.\*
- 5: /cgn2\_6/ptodata/1/iaa/PTUS COMB.pdp.\*
- 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pdp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	262.5	29.0	1162	2	US-08-728-323A-2
2	262.5	29.0	1162	3	US-09-298-568-2
3	262.5	29.0	1162	4	US-09-410-399-2
4	262.5	29.0	1162	4	US-09-894-273-2
5	255.5	28.2	369	2	US-08-391-300-2
6	220.5	24.3	383	4	US-09-248-796A-23236
7	214	23.6	256	4	US-09-248-796A-21251
8	209	23.1	255	4	US-09-489-039A-9101
9	204	22.5	941	4	US-07-757-022B-14
10	204	22.5	1022	4	US-07-757-022B-84
11	204	22.5	1038	4	US-07-757-022B-74
12	204	22.5	1049	4	US-07-757-022B-58
13	204	22.5	1140	4	US-07-757-022B-104
14	204	22.5	1270	4	US-07-757-022B-44
15	204	22.5	1311	4	US-07-757-022B-42
16	204	22.5	1313	4	US-07-757-022B-142
17	204	22.5	1314	4	US-07-757-022B-50
18	204	22.5	1320	4	US-07-757-022B-46
19	204	22.5	1320	4	US-07-757-022B-60
20	204	22.5	1320	4	US-10-164-595-58
21	204	22.5	1354	4	US-07-757-022B-48
22	204	22.5	1361	4	US-07-757-022B-40
23	204	22.5	1363	4	US-07-757-022B-52
24	204	22.5	1404	4	US-07-757-022B-2
25	204	22.5	1404	4	US-07-757-022B-62
26	204	22.5	1404	4	US-10-164-595-78
27	204	22.5	1404	4	US-09-298-970A-1

28	187	20.6	450	4	US-09-583-110-4333	Sequence 4333, Ap
29	187	20.6	1274	3	US-09-095-443-2	Sequence 2, Appli
30	186	20.5	191	4	US-08-538-092-1379	Sequence 1379, Ap
31	184	20.3	667	2	US-08-718-661-2	Sequence 2, Appli
32	184	20.3	1253	4	US-09-489-039A-12097	Sequence 12097, A
33	180	19.9	148	3	US-09-178-509-1	Sequence 1, Appli
34	177.5	19.6	180	4	US-09-744-128-17	Sequence 17, Appli
35	177.5	19.6	8991	4	US-08-714-741-32	Sequence 32, Appli
36	175	19.3	194	4	US-09-744-128-16	Sequence 16, Appli
37	173	19.1	579	4	US-09-568-119-3	Sequence 3, Appli
38	172	19.0	788	2	US-08-918-914-4	Sequence 4, Appli
39	171.5	18.9	254	4	US-09-216-393B-136	Sequence 126, App
40	171	18.9	132	4	US-09-248-796A-14271	Sequence 14271, A
41	170	18.8	320	4	US-09-248-796A-24758	Sequence 24758, A
42	169	18.7	605	2	US-08-687-956A-1	Sequence 1, Appli
43	169	18.7	1231	4	US-08-714-741-41	Sequence 41, Appli
44	167.5	18.5	171	4	US-09-216-393B-71	Sequence 71, Appli
45	167.5	18.5	171	4	US-09-216-393B-274	Sequence 274, App

#### ALIGNMENTS

RESULT 1  
US-08-728-323A-2  
; Sequence 2, Application US/09728323A  
; Patent No. 5948676  
; GENERAL INFORMATION:  
; APPLICANT: Chang, Yuan  
; APPLICANT: Bohenzky, Roy A.  
; APPLICANT: Russo, James J.  
; APPLICANT: Edelman, Isidore S.  
; APPLICANT: Moore, Patrick S.  
; TITLE OF INVENTION: Immediate Early Protein From Kaposi's  
; TITLE OF INVENTION: Sarcoma-Associated Herpesvirus, DNA  
; TITLE OF INVENTION: Encoding Same And Uses Thereof  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham LLP  
; STREET: 1185 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/728,323A  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P.  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 0575/52268/JPW/MSC/SKS  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212-278-0400  
; TELEFAX: 212-391-0525  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1162 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-728-323A-2

Query Match 29.0%; Score 262.5; DB 2; Length 1162;  
Best Local Similarity 46.8%; Pred. No. 1.2e-17;  
Matches 74; Conservative 10; Mismatches 51; Indels 23; Gaps 8;

QY 2 RQLNPCSQE-LQSPQSYLQPPVQNPYPQPFPPVQPPFHTPQQVFPVLPPEL-PPQVQ 59



STATE: VA  
 COUNTRY: USA  
 ZIP: 22202  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA: US/08/991,300  
 FILING DATE: 16-DEC-1997  
 CLASSIFICATION: 800  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: IT MI 96/A 002663  
 FILING DATE: 19-DEC-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: OBLON, NORMAN F.  
 REGISTRATION NUMBER: 24,618  
 REFERENCE/DOCKET NUMBER: 2264-0201-0X  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 703-413-3000  
 TELEFAX: 703-413-2220  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 369 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-991-300-2

Query Match 28.2%; Score 255.5; DB 2; Length 369;  
 Best Local Similarity 41.7%; Pred. No. 1.7e-17;  
 Matches 80; Conservative 10; Mismatches 59; Indels 43; Gaps 12;

QY 3 QLNPCSELQSCQSLQOP-----YFQNPYLPOK-----PFPVQO--PF 40  
 DB 39 QQQPCSCQQQQPLSQQQQPPFSQQQQQVLPVLPQPSFQQQLPFSQQQQPPF 98  
 QY 41 HTPQQYFYLPEE-LFPQYQIPTLPQPPFPQO-----PQQLPRPQQPFPNPO-QPPF 94  
 DB 99 SQQQQ--FVLPPQPSFSQQQLPFSQQQLPFSQQQLPFSQQQLPFSQQQLPFS 156  
 QY 95 QPQEPF-PQQPQQPFPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQP 148  
 DB 157 QQQQVLPQOP--PFSQQQQQPIP--PQQPFPSCQQQQPVLQQQIPFVHPSILOQLNPCK 212  
 QY 149 ---QQASCIWSM 157  
 DB 213 VFLQQQCSWAM 224

RESULT 6  
 US-09-248-796A-23236  
 ; Sequence 23236, Application US/09248796A  
 ; Patent No. 6747137  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Keith Weinstock et al  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
 ; FILE REFERENCE: 107196.132  
 ; CURRENT APPLICATION NUMBER: US/09/248,796A  
 ; PRIOR FILING DATE: 1999-02-12  
 ; PRIOR APPLICATION NUMBER: US 60/074,725  
 ; PRIOR FILING DATE: 1998-02-13  
 ; PRIOR APPLICATION NUMBER: US 60/096,409  
 ; PRIOR FILING DATE: 1998-08-13  
 ; NUMBER OF SEQ ID NOS: 28208  
 ; SEQ ID NO 23236  
 ; LENGTH: 383  
 ; TYPE: PRT  
 ; ORGANISM: Candida albicans  
 ; US-09-248-796A-23236

US-09-248-796A-21251  
 ; Sequence 21251, Application US/09248796A  
 ; Patent No. 6747137  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Keith Weinstock et al  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
 ; FILE REFERENCE: 107196.132  
 ; CURRENT APPLICATION NUMBER: US/09/248,796A  
 ; PRIOR FILING DATE: 1999-02-12  
 ; PRIOR APPLICATION NUMBER: US 60/074,725  
 ; PRIOR FILING DATE: 1998-02-13  
 ; PRIOR APPLICATION NUMBER: US 60/096,409  
 ; PRIOR FILING DATE: 1998-08-13  
 ; NUMBER OF SEQ ID NOS: 28208  
 ; SEQ ID NO 21251  
 ; LENGTH: 256  
 ; TYPE: PRT  
 ; ORGANISM: Candida albicans  
 ; US-09-248-796A-21251

Query Match 24.3%; Score 220.5; DB 4; Length 383;  
 Best Local Similarity 42.2%; Pred. No. 4.6e-14;  
 Matches 65; Conservative 13; Mismatches 53; Indels 23; Gaps 11;  
 QY 12 QSQQQSYLQOYPQNPYLPOKP--FVQQQFFHTPQQYFFYLPEELFP---QYQIPTLPQP 66  
 DB 7 QDBREYFQPPMPAMPAPAIAPVILPVQ--FOQPLNQQP-LPQQFQPPQFPQQPVPQQ 63  
 QY 67 -QQPF-PQQPQQQLPRPQ-QPFFWQQQQPFPQ---QETIPQ--PQQFFPQ--PQQPF 116  
 DB 64 FQPVFPQQFQFPVFPQQPFPVQFPVQFPVQFPVQFPVQFPVQFPVQFPVQFPVQ 123  
 QY 117 PQ-----QPQQIIFQQPQSQSYVQPPPPPPQ 145  
 DB 124 PQAPSPAPSPVSPSPAPLLELPTPPFPLOPE 157

RESULT 7  
 US-09-248-796A-21251  
 ; Sequence 21251, Application US/09248796A  
 ; Patent No. 6747137  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Keith Weinstock et al  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
 ; FILE REFERENCE: 107196.132  
 ; CURRENT APPLICATION NUMBER: US/09/248,796A  
 ; CURRENT FILING DATE: 1999-02-12  
 ; PRIOR APPLICATION NUMBER: US 60/074,725  
 ; PRIOR FILING DATE: 1998-02-13  
 ; PRIOR APPLICATION NUMBER: US 60/096,409  
 ; PRIOR FILING DATE: 1998-08-13  
 ; NUMBER OF SEQ ID NOS: 28208  
 ; SEQ ID NO 21251  
 ; LENGTH: 256  
 ; TYPE: PRT  
 ; ORGANISM: Candida albicans  
 ; NAME/KEY: UNSURE  
 ; LOCATION: (250)  
 ; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown  
 ; US-09-248-796A-21251

Query Match 23.6%; Score 214; DB 4; Length 256;  
 Best Local Similarity 38.7%; Pred. No. 1.3e-13;  
 Matches 63; Conservative 20; Mismatches 62; Indels 18; Gaps 7;  
 QY 6 PCSQELQSPQSYLQOYPQ---NPYLPQKFPFPVQQFFHTPQQYFFYLPEELFPQYQIPT 62  
 DB 75 PPEEQRPQKYPOQPQPSQPHYQQQQQQPQQQLYSFQ---VQQQYHQQQQQQL 131  
 QY 53 PLOPQQPFPQQPQLPRPQFPQFPQFPQFPQFPQFPQFPQFPQFPQFPQFPQFPQFP 120  
 DB 132 QQQQQQY:QCKKFKQLQQLQQLPQLQQQQQP-PQ-QQHYQKQFPQQPQQPQPHRVPPQQP 189  
 QY 121 QQIIFQQPQQSYVQFPQQPFPQ-----QPQVPQQASCIWS 156  
 DB 190 QQQLSCAVRAAPPTQKQPPFPQQQLYGRSQFSFP-QGTTKWS 231

RESULT 8  
 US-09-489-039A-9101  
 ; Sequence 9101, Application US/09489039A  
 ; Patent No. 6610836  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gary Breton et al  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
 ; FILE REFERENCE: 2709.2004001  
 ; CURRENT APPLICATION NUMBER: US/09/489,039A  
 ; CURRENT FILING DATE: 2000-01-27  
 ; PRIOR APPLICATION NUMBER: US 60/117,747

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; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 9101
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9101

Query Match
Best Local Similarity 23.1%; Score 209; DB 4; Length 255;
Matches 60; Conservative 11; Mismatches 46; Indels 26; Gaps 10;

QY 12 QSQSYQYQYVQNPYLPKRP-FVQQPFHTPQQYFFYLPEELFPQYQIPTPLQPOQPF 70
DB 111 QAPQYQY-QPPYERQMQQPARPEEVQRP--PQ-----PFRQAPVPFQ-QQPA 154
QY 71 PQQPOQP---LPRPOQPFWQPO-QPFPQPEPIQPOQPFQPOQPFQPOQPFQO 124
DB 155 PHAAPQGWQFQPAQRP-FVQFQHQFQPVVQQPVAPQVFTVAQPPAPQPPAPQFVA 213
QY 125 FQQP--QOSYVQVQPOQPFQPOQ 145
DB 214 ASQPAIAEQVQVQPPQAPQPK 236

RESULT 9
US-07-757-022B-14
; Sequence 14, Application US/07757022B
; Patent No. 6433142
; GENERAL INFORMATION:
; APPLICANT: Gesner, Thomas G.
; APPLICANT: Clark, Stephen C.
; APPLICANT: Turner, Katherine
; APPLICANT: Hewick, Rodney M.
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors
; NUMBER OF SEQUENCES: 143
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genetics Institute, Inc.
; STREET: 87 CambridgePark Drive
; CITY: Cambridge
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/757,022B
; FILING DATE: 19910910
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/643,502
; FILING DATE: 18-JAN-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/546,114
; FILING DATE: 29-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/457,196
; FILING DATE: 29-DEC-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/390,901
; FILING DATE: 08-AUG-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: GI 5190
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)876-1170
; TELEFAX: (617)876-5851
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1022 amino acids
; TYPE: AMINO ACID

; LENGTH: 941 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-757-022B-14

Query Match
Best Local Similarity 22.5%; Score 204; DB 4; Length 941;
Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSQSYQYQYVQNPYLPKRP-FVQQPFHTPQQYFFYLPEELFPQYQIPTPLQPOQPF 71
DB 195 KEPAPTTTKEPAPTTKPEP-APTITKEPAPTTTSGAPTTTKE-----PAPTTTKEPAP 246
QY 72 QOQOQPLP-RPOQPFWQPOQPFQPOQPEPIQPOQPFQPOQPFQPOQPFQPOQ 130
DB 247 TTPKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKE 306
QY 131 SYPVQVQVQPFQPOQ-QPVP 148
DB 307 PAPTTTKEPSTTTKEPAP 325

RESULT 10
US-07-757-022B-84
; Sequence 84, Application US/07757022B
; Patent No. 6433142
; GENERAL INFORMATION:
; APPLICANT: Gesner, Thomas G.
; APPLICANT: Clark, Stephen C.
; APPLICANT: Turner, Katherine
; APPLICANT: Hewick, Rodney M.
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors
; NUMBER OF SEQUENCES: 143
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genetics Institute, Inc.
; STREET: 87 CambridgePark Drive
; CITY: Cambridge
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/757,022B
; FILING DATE: 19910910
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/643,502
; FILING DATE: 18-JAN-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/546,114
; FILING DATE: 29-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/457,196
; FILING DATE: 29-DEC-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/390,901
; FILING DATE: 08-AUG-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: GI 5190
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)876-1170
; TELEFAX: (617)876-5851
; INFORMATION FOR SEQ ID NO: 84:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1022 amino acids
; TYPE: AMINO ACID
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```
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-757-022B-84

Query Match      22.5%; Score 204; DB 4; Length 1022;
Best Local Similarity 30.2%; Pred. No. 5.6e-12;
Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

Qy 12 QSQOQVLPQYQNPVLPQKPPVQPPHPTPQYFYLPELFPQYQIPTLPQPP 71
Db 276 KEPATTTKEPATTKEP-APTITKEPATTTKSAPTTPKE-----PAPTTKKEPAP 327
Qy 72 QOQOQPLP-RPOQPFQOQPPQOPEPIPOQOQPPQOQPPQOQPPQOQPP 130
Db 328 TTPKEPATTTPKEPTTPKEPATTTPKEPATTTPKEPATTTPKEPATTTPKE 387
Qy 131 SYVQOQPPQOQPPQOQ-QPVP 148
Db 388 PAPTTTKESPPTTKKEPAP 406

RESULT 11
US-07-757-022B-74
; Sequence 74, Application US/07757022B
; Patent No. 6433142
; GENERAL INFORMATION:
; APPLICANT: Gesner, Thomas G.
; APPLICANT: Clark, Stephen C.
; APPLICANT: Turner, Katherine
; APPLICANT: Hewick, Rodney M.
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors
; NUMBER OF SEQUENCES: 143
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genetics Institute, Inc.
; STREET: 87 CambridgePark Drive
; CITY: Cambridge
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/757,022B
; FILING DATE: 19910910
; CLASSIFICATION: 530
; PRIOR APPLICATION NUMBER:
; FILING DATE: 18-JAN-1991
; APPLICATION NUMBER: US 07/643,502
; FILING DATE: 18-JAN-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/546,114
; FILING DATE: 29-JUN-1990
; APPLICATION NUMBER: US 07/457,196
; FILING DATE: 29-DEC-1989
; APPLICATION NUMBER: US 07/390,901
; FILING DATE: 08-AUG-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: GI 5190
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)876-1170
; TELEFAX: (617)876-5851
; INFORMATION FOR SEQ ID NO: 74:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1038 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-757-022B-84

Query Match      22.5%; Score 204; DB 4; Length 1022;
Best Local Similarity 30.2%; Pred. No. 5.6e-12;
Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

Qy 12 QSQOQVLPQYQNPVLPQKPPVQPPHPTPQYFYLPELFPQYQIPTLPQPP 71
Db 260 KEPATTTKEPATTTPKEP-APTITKEPATTTKSAPTTPKE-----PAPTTKKEPAP 311
Qy 72 QOQOQPLP-RPOQPFQOQPPQOPEPIPOQOQPPQOQPPQOQPPQOQPP 130
Db 312 TTPKEPATTTPKEPTTPKEPATTTPKEPATTTPKEPATTTPKEPATTTPKE 371
Qy 131 SYVQOQPPQOQPPQOQ-QPVP 148
Db 372 PAPTTTKESPPTTKKEPAP 390

RESULT 12
US-07-757-022B-58
; Sequence 58, Application US/07757022B
; Patent No. 6433142
; GENERAL INFORMATION:
; APPLICANT: Gesner, Thomas G.
; APPLICANT: Clark, Stephen C.
; APPLICANT: Turner, Katherine
; APPLICANT: Hewick, Rodney M.
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors
; NUMBER OF SEQUENCES: 143
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genetics Institute, Inc.
; STREET: 87 CambridgePark Drive
; CITY: Cambridge
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/757,022B
; FILING DATE: 19910910
; CLASSIFICATION: 530
; PRIOR APPLICATION NUMBER:
; FILING DATE: 18-JAN-1991
; APPLICATION NUMBER: US 07/643,502
; FILING DATE: 18-JAN-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/546,114
; FILING DATE: 29-JUN-1990
; APPLICATION NUMBER: US 07/457,196
; FILING DATE: 29-DEC-1989
; APPLICATION NUMBER: US 07/390,901
; FILING DATE: 08-AUG-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: GI 5190
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)876-1170
; TELEFAX: (617)876-5851
; INFORMATION FOR SEQ ID NO: 58:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1049 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-757-022B-58
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Query Match 22.5%; Score 204; DB 4; Length 1049;  
Best Local Similarity 30.2%; Pred. No. 5.8e-12;  
Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSPQSYLQOQYPQNPYLQKPFVQOQPFHTPQOYFVYLPELFPQYQIPTLPLOQOQPP 71  
Db 303 KEPAITTKKEPATTTKPEP-APTITKEPATTTKSAPTTKE-----PATTTKKPAP 354  
QY 72 QOQOQLP-RQOQPFQOQOQPFQOQPFQOQPFQOQPFQOQPFQOQPFQOQPFQOQ 130  
Db 355 TTPKEPATTTKPEPTTTPKEPATTTKPEPATTTKPEPATTTKPEPATTTTKE 414  
QY 131 SYPVQOQOQPFQOQ-OPVP 148  
Db 415 PAPTITKESPTTKEPAP 433

## RESULT 13

US-07-757-022B-104  
; Sequence 104, Application US/07757022B  
; Patent No. 6433142

; GENERAL INFORMATION:  
; APPLICANT: Gesner, Thomas G.  
; APPLICANT: Clark, Stephen C.  
; APPLICANT: Turner, Katherine  
; APPLICANT: Hewick, Rodney M.  
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors  
; NUMBER OF SEQUENCES: 143  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genetics Institute, Inc.  
; STREET: 87 CambridgePark Drive  
; CITY: Cambridge  
; STATE: Massachusetts  
; COUNTRY: U.S.A.  
; ZIP: 02140

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07757,022B  
; FILING DATE: 19910910  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/643,502  
; FILING DATE: 18-JAN-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/546,114  
; FILING DATE: 29-JUN-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/457,196  
; FILING DATE: 29-DEC-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/390,901  
; FILING DATE: 08-AUG-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cseri, Luann  
; REGISTRATION NUMBER: 31,822  
; REFERENCE/DOCKET NUMBER: GI 5190  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)876-1170  
; TELEFAX: (617)876-5851  
; INFORMATION FOR SEQ ID NO: 104:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1140 amino acids  
; TYPE: AMINO ACID  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein

US-07-757-022B-104

Query Match 22.5%; Score 204; DB 4; Length 1140;  
Best Local Similarity 30.2%; Pred. No. 6.4e-12;

Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSPQSYLQOQYPQNPYLQKPFVQOQPFHTPQOYFVYLPELFPQYQIPTLPLOQOQPP 71  
Db 394 KEPAITTKKEPATTTKPEP-APTITKEPATTTKSAPTTKE-----PATTTKKPAP 445  
QY 72 QOQOQLP-RQOQPFQOQOQPFQOQPFQOQPFQOQPFQOQPFQOQPFQOQPFQOQ 130  
Db 446 TTPKEPATTTKPEPTTTPKEPATTTKPEPATTTKPEPATTTKPEPATTTTKE 505  
QY 131 SYPVQOQOQPFQOQ-OPVP 148  
Db 506 PAPTITKESPTTKEPAP 524

## RESULT 14

US-07-757-022B-44  
; Sequence 44, Application US/07757022B  
; Patent No. 6433142

; GENERAL INFORMATION:  
; APPLICANT: Gesner, Thomas G.  
; APPLICANT: Clark, Stephen C.  
; APPLICANT: Turner, Katherine  
; APPLICANT: Hewick, Rodney M.  
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors  
; NUMBER OF SEQUENCES: 143  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genetics Institute, Inc.  
; STREET: 87 CambridgePark Drive  
; CITY: Cambridge  
; STATE: Massachusetts  
; COUNTRY: U.S.A.  
; ZIP: 02140

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07757,022B  
; FILING DATE: 19910910  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/643,502  
; FILING DATE: 18-JAN-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/546,114  
; FILING DATE: 29-JUN-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/457,196  
; FILING DATE: 29-DEC-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/390,901  
; FILING DATE: 08-AUG-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cseri, Luann  
; REGISTRATION NUMBER: 31,822  
; REFERENCE/DOCKET NUMBER: GI 5190  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)876-1170  
; TELEFAX: (617)876-5851  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1270 amino acids  
; TYPE: AMINO ACID  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein

US-07-757-022B-44

Query Match 22.5%; Score 204; DB 4; Length 1270;  
Best Local Similarity 30.2%; Pred. No. 7.2e-12;  
Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSPQSYLQOPVQNPYLPQKPPVQOPFHHPQOYFVYLPBEEFPQYQIPTLPQOPPP 71  
Db 260 KEPAITTTKEPAPTTTKEP-APTITKEPAPTTTTSAPTKE-----PAPTTKKEPAP 311  
QY 72 QOPQOPLP-RPQOPFFWQOPFFQOPFPIPOQOPQOPFFQOPFFQOPQOIIIFQOPQ 130  
Db 312 TTPKEPAPTTKEPTTTPKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKE 371  
QY 131 SYPVQOPQOPPPQOP-QPVP 148  
Db 372 PAPTTTKEPSPTTKEPAP 390

RESULT 15  
US-07-757-022B-42  
; Sequence 42, Application US/07757022B  
; Patent No. 6433142  
; GENERAL INFORMATION:  
; APPLICANT: Geener, Thomas G.  
; APPLICANT: Clark, Stephen C.  
; APPLICANT: Turner, Katherine  
; APPLICANT: Hewick, Rodney M.  
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors  
; NUMBER OF SEQUENCES: 143  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genetics Institute, Inc.  
; STREET: 87 CambridgePark Drive  
; CITY: Cambridge  
; STATE: Massachusetts  
; COUNTRY: U.S.A.  
; ZIP: 02140  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/757,022B  
; FILING DATE: 19910910  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/643,502  
; FILING DATE: 18-JAN-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/546,114  
; FILING DATE: 29-JUN-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/457,196  
; FILING DATE: 29-DEC-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/390,901  
; FILING DATE: 08-AUG-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cserr, Luann  
; REGISTRATION NUMBER: 31,822  
; REFERENCE/DOCKET NUMBER: GI 5190  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)876-1170  
; TELEFAX: (617)876-5851  
; INFORMATION FOR SEQ ID NO: 42:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1311 amino acids  
; TYPE: AMINO ACID  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-07-757-022B-42

Query Match 22.5%; Score 204; DB 4; Length 1311;  
Best Local Similarity 30.2%; Pred. No. 7.4e-12;  
Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;  
QY 12 QSPQSYLQOPVQNPYLPQKPPVQOPFHHPQOYFVYLPBEEFPQYQIPTLPQOPPP 71

Db 301 KEPAITTTKEPAPTTTKEP-APTITKEPAPTTTTSAPTKE-----PAPTTKKEPAP 352  
QY 72 QOPQOPLP-RPQOPFFWQOPFFQOPFPIPOQOPQOPFFQOPFFQOPQOIIIFQOPQ 130  
Db 353 TTPKEPAPTTKEPTTTPKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKE 412  
QY 131 SYPVQOPQOPPPQOP-QPVP 148  
Db 413 PAPTTTKEPSPTTKEPAP 431

Search completed: November 10, 2004, 19:33:58  
Job time : 46 secs





GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: November 10, 2004, 19:33:40 ; Search time 141 Seconds

(without alignments)  
395.813 Million cell updates/sec

Title: US-09-743-533-19

Perfect score: 906

Sequence: 1 MRLNPGQELQSQSYLQ.....PFPQPPQVPQOASIMSW 158

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1565620 seqs, 353225886 residues

Total number of hits satisfying chosen parameters: 1566620

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/prodata/1/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/prodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/prodata/1/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep:*
10: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep:*
11: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep:*
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13: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep:*
14: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep:*
15: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep:*
16: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep:*
17: /cgn2_6/prodata/1/pubpaa/US10_NEW_PUB.pep:*
18: /cgn2_6/prodata/1/pubpaa/US11_NEW_PUB.pep:*
19: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep:*
20: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	412	45.5	327	17	US-10-739-930-9623
2	347	38.3	298	17	Sequence 9623, Ap
3	270	29.8	298	17	Sequence 9621, Ap
4	262.5	29.0	1162	14	US-10-739-930-9621
5	262.5	29.0	1162	14	Sequence 9770, Ap
6	246	27.2	1351	15	Sequence 2, Appli
7	244.5	27.0	1343	15	Sequence 75147, A
8	244.5	27.0	1362	9	Sequence 75655, A
9	233.5	26.1	319	17	Sequence 14009, A
10	233.5	25.8	287	17	Sequence 9619, Ap
11	223	24.6	309	17	Sequence 9777, Ap
12	222	24.5	296	9	Sequence 208032,
13	222	24.5	296	15	Sequence 10, Appl
					Sequence 824, App

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14 222 24.5 296 16 US-10-437-963-126258
15 222 24.5 296 16 US-10-628-969-10
16 221.5 24.4 267 17 US-10-425-115-208027
17 217 24.0 1329 9 US-09-815-242-10112
18 217 24.0 1329 15 US-10-282-122A-56499
19 214 23.6 226 17 US-10-425-115-233052
20 211.5 23.3 307 17 US-10-739-930-9782
21 209 23.1 214 16 US-10-767-701-42842
22 207.5 22.9 216 17 US-10-425-115-233050
23 204 22.5 941 13 US-10-124-557-14
24 204 22.5 1022 13 US-10-124-557-84
25 204 22.5 1038 13 US-10-124-557-74
26 204 22.5 1049 13 US-10-124-557-58
27 204 22.5 1140 13 US-10-124-557-104
28 204 22.5 1270 13 US-10-124-557-44
29 204 22.5 1311 13 US-10-124-557-42
30 204 22.5 1313 13 US-10-124-557-142
31 204 22.5 1314 13 US-10-124-557-50
32 204 22.5 1320 13 US-10-124-557-46
33 204 22.5 1320 13 US-10-124-557-60
34 204 22.5 1354 13 US-10-124-557-48
35 204 22.5 1361 13 US-10-124-557-40
36 204 22.5 1363 13 US-10-124-557-52
37 204 22.5 1404 9 US-09-802-207-30
38 204 22.5 1404 11 US-09-897-188-1
39 204 22.5 1404 13 US-10-124-557-2
40 204 22.5 1404 13 US-10-124-557-62
41 197 21.7 390 15 US-10-424-599-270450
42 197 21.7 634 15 US-10-425-114-66826
43 196.5 21.7 619 16 US-10-437-963-184014
44 196 21.6 187 17 US-10-425-115-208030
45 196 21.6 353 15 US-10-282-122A-59113
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#### ALIGNMENTS

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RESULT 1
US-10-739-930-9623
; Sequence 9623, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; FILE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-16
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9623
; LENGTH: 327
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-Cl25_84.P
US-10-739-930-9623
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Query Match 45.5%; Score 412; DB 17; Length 327;
Best Local Similarity 50.0%; Pred. No. 4.4e-24;
Matches 97; Conservative 12; Mismatches 37; Indels 48; Gaps 10;

QY 3 QLNPCSQE--LQSPQSYLQPPYQNFYLPQKPFVQQPFHTFPQYFPYLPPEELFPQYQI 60
Db 22 QVDPSSGVQWLQQLVPLQLQPLSQQP-----QQTFFPQQTTFPHQVQVPPQ 72
QY 61 PTF--LQFQPPFPQPPQPPLE---RPQPPFPWQPPQPPF---QFEPFPQPPQPPF--Q 110
Db 73 FQPPFLQQLQPPFPQPPQPPFFTCQPPQPPFPQPPQPPFPQPPFPQPPFPQ 132
QY 111 PQQPPFP--QPPQQTIFQPPQPS--YVPQPPFPQPPFPQPPQPPQPPQPPQPPQ 151
Db 133 PQQPPFPQLQPPQ--PFPQPPQQLPQPPQPPQPPQPPQPPQPPQPPQPPQPPQ 191
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QY 152 -----SCIWSMV 158
Db 192 CKPASLVSSLWSII 205

RESULT 2
US-10-739-930-9621
; Sequence 9621, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9621
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-C125_65.p
US-10-739-930-9621

Query Match 38.3%; Score 347; DB 17; Length 298;
Best Local Similarity 45.0%; Pred. No. 4e-19;
Matches 86; Conservative 11; Mismatches 24; Indels 70; Gaps 11;

QY 3 QLNPCSOELQSPQSYLQPPYQNPYLPKPPYQPPHPTPQQYFPYLPPELFPQVQIPT 62
Db 22 QVDSQSQ-VQMPQ-----QQPVQ-----PHQFSSQ-----PQOTFP----- 53
QY 63 PLQPPQPPFPQPPQLPFPQFFFWQPPQPPFPQPPQPPFPQPPQPPFPQPPQPPFP 120
Db 54 --QPQTFPHQPPQPPQPPQ-----QPQQQLPQPPFPQPPQPPQPPQPPFPQPP 106
QY 121 QQII-----FCQPPQSY--PVQPPQPPFPQPP-----QVPPQ----- 150
Db 107 QQLFPQSQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 166
QY 151 ---ASCIWSMV 158
Db 167 VSLVSSLWSMI 177

RESULT 3
US-10-739-930-9770
; Sequence 9770, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9770
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-C176_183.p
US-10-739-930-9770

Query Match 29.8%; Score 270; DB 17; Length 298;
Best Local Similarity 32.1%; Pred. No. 3.2e-13;
Matches 79; Conservative 16; Mismatches 43; Indels 108; Gaps 11;

QY 3 QLNPCSOELQSPQSYLQPPYQNPYLPKPPYQPPHPTPQQYFPYLPPELFPQ 57
Db 27 QLPQNPFSQQPPQKQVPLVQQQPPGQQQPPFPQPPQPPQPPQPPQPPQPPQPP 83

QY 58 YQIPTPLQCPQPPFPQPPQPLP-RQCPFFWQPPQPPFPQPPQPPFPQPPQPPQPP 107
Db 84 POLPYP-QPQLBP-----QPQFRFPQSY-PQPPQYSPQPPQPPISQQQQQQQQQQ 137
QY 108 ----- 107
Db 138 ILQQILQQQLIFCRDVLVQHSIAHGSQVQLQSTYQLVQVQFCQQLWQIPEQSRQAIH 197
QY 108 -----FPQPPQPPFPQPP-QQIFQPPQPPQPP-----VQPPQPPFPQ-----Q 143
Db 198 NVVHAILLQHHHRRQQQQQQQQQQQLSLQSVFQPPQPPQPPQPPQPPQPPQPP 257
QY 144 POPVPQ 149
Db 258 PQQLPQ 263

RESULT 4
US-09-894-273-2
; Sequence 2, Application US/09894273
; Publication No. US20040037847A1
; GENERAL INFORMATION:
; APPLICANT: Kieff, Elliott D.
; APPLICANT: Ballestas, Mary E.
; APPLICANT: Kaye, Kenneth M.
; TITLE OF INVENTION: RHADINO VIRUS LANA ACTS IN TRANS ON A UNIT OF RHADINO
; TITLE OF INVENTION: VIRUS DNA TO MEDIATE EFFICIENT EPISOME PERSISTENCE
; FILE REFERENCE: 16412-10001R
; CURRENT APPLICATION NUMBER: US/09/894,273
; CURRENT FILING DATE: 2001-08-28
; PRIOR APPLICATION NUMBER: US 60/109,422
; PRIOR FILING DATE: 1998-11-19
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1162
; TYPE: PRT
; ORGANISM: Kaposi's sarcoma-associated herpesvirus
US-09-894-273-2

Query Match 29.0%; Score 262.5; DB 11; Length 1162;
Best Local Similarity 46.8%; Pred. No. 4.2e-12;
Matches 74; Conservative 10; Mismatches 51; Indels 23; Gaps 8;

QY 2 RQINPCSOE-LQSPQSYLQPPYQNPYLPKPPYQPPHPTPQQYFPYLPPEL-FPQYQ 59
Db 453 QQQEPQQQEPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 502
QY 60 IPTPLQPPQPPFPQPPQPPQPPFPQPPFPQPPFPQPPFPQPPFPQPPFPQPP 115
Db 503 EFQQEPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 562
QY 116 FPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 149
Db 563 EPQQEPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 597

RESULT 5
US-10-294-804-2
; Sequence 2, Application US/10294804
; Publication No. US20030133948A1
; GENERAL INFORMATION:
; APPLICANT: Robertson, Erle S.
; APPLICANT: Cotter, Murray A.
; TITLE OF INVENTION: Methods to Inhibit or Enhance the Binding of Viral DNA
; TITLE OF INVENTION: to Genomic Host DNA
; FILE REFERENCE: UM-03778
; CURRENT APPLICATION NUMBER: US/10/294,804
; CURRENT FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: US/09/410,399
; PRIOR FILING DATE: 1999-10-01
; NUMBER OF SEQ ID NOS: 6

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1162
; TYPE: PRT
; ORGANISM: Kaposi's sarcoma-associated herpesvirus
; US-10-294-804-2

Query Match      29.0%; Score 262.5; DB 14; Length 1162;
Best Local Similarity 46.8%; Pred. No. 4.2e-12;
Matches 74; Conservative 10; Mismatches 51; Indels 23; Gaps 8;

QY 2 RQNLPCSOE-LQSPQSYLQOYPQNPYLPKRFPPVQCFHPIPOQYFFVLPPEL-PPQVQ 59
Db 453 QOQEQPQOQFLOEPQOQEQPQO-----QELQEPQOQEQPQOQFLOEPQOQ 502
QY 60 IPTPLQOQPFPPQO--PQOPLRPQOFPWQOQPPFPQOEPPIPOQOQPFPPQO--PQOP 115
Db 503 EPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQO 562
QY 116 FPQO--PQOIIFQOQOQSYVQ--PQOPFPQOQPVVQ 149
Db 563 EPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQO 597

RESULT 6
US-10-282-122A-75147
; Sequence 75147, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR FILING DATE: 2000-05-23
; PRIOR FILING DATE: 2000-05-23
; PRIOR FILING DATE: 2000-05-26
; PRIOR FILING DATE: 2000-09-06
; PRIOR FILING DATE: 2000-09-06
; PRIOR FILING DATE: 2000-09-09
; PRIOR FILING DATE: 2000-09-09
; PRIOR FILING DATE: 2000-10-23
; PRIOR FILING DATE: 2000-10-23
; PRIOR FILING DATE: 2000-10-23
; PRIOR FILING DATE: 2000-11-27
; PRIOR FILING DATE: 2000-12-22
; PRIOR FILING DATE: 2000-12-22
; PRIOR FILING DATE: 2001-02-09
; PRIOR FILING DATE: 2001-02-09
; PRIOR FILING DATE: 2001-02-16
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 75147
; LENGTH: 1351
; TYPE: PRT
; ORGANISM: Salmonella typhimurium
US-10-282-122A-75147

Query Match      27.0%; Score 244.5; DB 15; Length 1343;
Best Local Similarity 41.0%; Pred. No. 9e-11;
Matches 77; Conservative 12; Mismatches 49; Indels 50; Gaps 14;

QY 2 RQNLPCSOE-LQSPQSYLQOYPQNPYLPKRFPPVQCFHPIPOQYFFVLPPEL-PPQVQ 39
Db 670 RQFAASQOQRYSGEPAGAPFSLDLDLDFSMKVLVDGEPHPLFTGVMPEST-PVQOP 728
QY 40 -----FHTPQOYFFVLPPELPPQYQIP-TLPQOQPPFPQOQOPL-PRPQOFPVQOP 89
Db 729 VAPQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQO 779
QY 90 QOQF-PQOQEPPOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQO 146
Db 780 QOQVAPQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQO 834
QY 147 VPQOASCI 154
Db 835 TAPQDSLI 842

RESULT 7
US-10-282-122A-75965
; Sequence 75965, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR FILING DATE: 2000-05-23
; PRIOR FILING DATE: 2000-05-23
; PRIOR FILING DATE: 2000-05-26
; PRIOR FILING DATE: 2000-09-06
; PRIOR FILING DATE: 2000-09-06
; PRIOR FILING DATE: 2000-09-09
; PRIOR FILING DATE: 2000-09-09
; PRIOR FILING DATE: 2000-10-23
; PRIOR FILING DATE: 2000-10-23
; PRIOR FILING DATE: 2000-10-23
; PRIOR FILING DATE: 2000-11-27
; PRIOR FILING DATE: 2000-12-22
; PRIOR FILING DATE: 2000-12-22
; PRIOR FILING DATE: 2001-02-09
; PRIOR FILING DATE: 2001-02-09
; PRIOR FILING DATE: 2001-02-16
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 75965
; LENGTH: 1343
; TYPE: PRT
; ORGANISM: Salmonella typhi
US-10-282-122A-75965

Query Match      27.0%; Score 244.5; DB 15; Length 1343;
Best Local Similarity 41.0%; Pred. No. 9e-11;
Matches 77; Conservative 12; Mismatches 49; Indels 50; Gaps 14;

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Qy 3 QLNPCSQBELQSP-----QOSVLOQPYPNQNVLPQKPEFFVQOQPTHFTQCOQFFPYLPDEBL 54
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Db 27 QLOQNPQSQQLPQEQEVLVQOOQLGQ---QOSFFPQOQPYQOPFF--FSQ-LPVLQLOP 80
      :
      :
      :
Qy 55 FPQ----YQIPTPLQPCQPPFQ-----QCOQLPRQCOFFPMQOPPOQPFQCEBIPQO- 103
      :
      :
      :
Db 81 FPOQLPYSQOPFRPQOPYPOPOFQISQOPQPISSOQQ--QOQOQOQOQOQOQOQLOQOI 138
      :
      :
      :
Qy 104 -PQQPPF-----PQPPF-----109
      :
      :
      :
Db 139 LQOQLIPCMDDVLQGHNTAHGSSQVLQOSTYQLLOQLCCOHLWQIPQOSQCAIHNVVHA 198
      :
      :
      :
Qy 110 ---QOPQOFPPOP-QQIIFQOQOOSVTV-----QPOQPPQ-----QOPVPO 149
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Db 199 IILHCOCKKOQOOPSOSVFCOPLCOQPLGOGSFRPQONPQOAGSVQOQLOPQ 252
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RESULT 11
US-10-425-115-208032
; Sequence 208032, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 208032
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_121319C.1.pep
US-10-425-115-208032

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Query Match	24.6%;	Score 223;	DB 17;	Length 309;
Best Local Similarity	32.3%;	Pred. No. 1.4e-09;		
Matches	63;	Conservative 17;	Mismatches 57;	Indels 58; Gaps 10;
QY	2	RQLNPFCSQELSQOSVLIQBP-YFQNPYLQPKPFVVPQBP-----FHTPQQYFYFLPDEL	54	
Db	29	RQL-----QELPKDLPPLPKSEVFRPDLPLPKPEEQPLPKELVPVPPQLPIPPQPL	84	
QY	55	FPQYCIPTPLQ-----PQQFFQQQ-----QPLPRQQPFFWQPPQPFPPQ	97	
Db	85	-PKELVPVPEFLVPVPPQLFVPPQPLPKPEAELVPPEFLVFPFQPLF-VPPQFLPKPE	142	
QY	98	EPIPQQ-----PQQFFPQQPQQPFPQQPQIIFQQPQSQSYVQPO-----	137	
Db	143	LPVPEPLVPVPPQLFVPVPPQLPKPDNDVFPPEP-----LPKELFVPVPPQLNPFELPV	196	
QY	138	--QBFPPQFQFVPPQ	150	
Db	197	PEELPKPELFPVPO	211	

RESULT 12  
US-09-789-054A-10  
; Sequence 10, Application US/09789054A  
; Publication No. US20020184659A1  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Zhu, Qun  
; TITLE OF INVENTION: PLANT GENES ENCODING DR1 AND DRAP1, A GLOBAL REPRESSOR COMPLEX OF  
; TITLE OF INVENTION: TRANSCRIPTION  
; FILE REFERENCE: Bb1107 US CIP  
; CURRENT APPLICATION NUMBER: US/09/789,054A  
; CURRENT FILING DATE: 2001-02-20

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; PRIOR APPLICATION NUMBER: 09/485558
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: PCT/US98/16688
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/055,865
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 10
; LENGTH: 296
; TYPE: PRT
; ORGANISM: Oryza sativa
US-09-789-054A-10

Query Match          24.5%; Score 222; DB 9; Length 296;
Best Local Similarity 43.6%; Pred. No. 1.6e-09;
Matches              65; Conservative 10; Mismatches 52; Indels 22; Gaps 9

Qy      6 PCSQELSPQOSVILQBPQNQVILPQKPPFVQPPFHTPQQYFVPLPEELRFPQYQITPLQ 65
Db      143 PKSEPEAQOQTQ-QPPQGLHPQPPQPLQFQLQLH-PQ-----PQQQ-PSQLH 188
Qy      66 PQQPF-PQQPQQQLPRQ-QPFWQPPQPPQP---QEP-IPQ--PQQPFPQPPQPPFP 117
Db      189 PQLLLHFSQQTQCPQCPQVHFQPPQPPQLQPPQLQLLQPPQLPQQLPQSQLPQPPQPPQ 248
Qy      118 QPQQIIFQPPQSYVQPPQPPFPQQPQ 146
Db      249 LQLQSQLHPQPPQPPQLQPPQLHCOQPP 277

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RESULT 13  
US-10-374-780A-824  
; Sequence 824, Application US/10374780A  
; Publication No. US20040019927A1  
; GENERAL INFORMATION:  
; APPLICANT: Sherman, Bradley K  
; APPLICANT: Riechmann, Jose Luis  
; APPLICANT: Jiang, Cai-Zhong  
; APPLICANT: Heard, Jacqueline E  
; APPLICANT: Haake, Volker  
; APPLICANT: Creelman, Robert A  
; APPLICANT: Ratcliffe, Oliver  
; APPLICANT: Adam, Luc J  
; APPLICANT: Reuber, T. Lynne  
; APPLICANT: Keddle, James  
; APPLICANT: Broun, Pierre E  
; APPLICANT: Pilgrim, Marsha L  
; APPLICANT: Dubell III, Arnold T  
; APPLICANT: Pineda, Omaira  
; APPLICANT: Yu, Guo-Liang  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS  
; FILE REFERENCE: WBI-0047 CIP  
; CURRENT APPLICATION NUMBER: US/10/374,780A  
; CURRENT FILING DATE: 2003-02-25  
; PRIOR APPLICATION NUMBER: 09/837,944  
; PRIOR FILING DATE: 2001-04-18  
; PRIOR APPLICATION NUMBER: 60/310,847  
; PRIOR FILING DATE: 2001-08-09  
; PRIOR APPLICATION NUMBER: 09/934,455  
; PRIOR FILING DATE: 2001-08-22  
; PRIOR APPLICATION NUMBER: 60/336,049  
; PRIOR FILING DATE: 2001-11-19  
; PRIOR APPLICATION NUMBER: 60/338,692  
; PRIOR FILING DATE: 2001-12-11  
; PRIOR APPLICATION NUMBER: 10/171,468  
; PRIOR FILING DATE: 2002-06-14  
; PRIOR APPLICATION NUMBER: 10/225,066  
; PRIOR FILING DATE: 2002-08-09  
; PRIOR APPLICATION NUMBER: 10/225,067  
; PRIOR FILING DATE: 2002-08-09  
; PRIOR APPLICATION NUMBER: 10/225,068  
; PRIOR FILING DATE: 2002-08-09

; NUMBER OF SEQ ID NOS: 2906  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 824  
 ; LENGTH: 296  
 ; TYPE: PRT  
 ; ORGANISM: Oryza sativa  
 ; FEATURE:  
 ; OTHER INFORMATION: Orthologous to G484  
 US-10-374-780A-824

Query Match 24.5%; Score 222; DB 15; Length 296;  
 Best Local Similarity 43.6%; Pred. No. 1.6e-09;  
 Matches 65; Conservative 10; Mismatches 52; Indels 22; Gaps 9;  
 QY 6 PCSQELQSPQSYLQQYPQNPYLQKFPVQQPFHTPQQYFYLPEELFPQYQIPTPLQ 65  
 DB 143 PKEPEPEAQQTQ-QPPQQLHPQPPQPLQPLQLH-PQ-----PQQQ-PSQLH 188  
 QY 66 PQQPF-PQQPQPLPRQ-QFFPWQPPFPQ---QEP-IPQ---QPCQPPFPQPPFP 117  
 DB 189 PQQLLHPQSQTTPQPPQVHFQPPQPPQQLQPPQLQPLQLH-PQ-----PQQQ-PSQLH 188  
 QY 118 QPQOIIFQQPQSQSYVPQPPFPFPQPP 146  
 DB 249 LQLQSLHPQPPQPPQPPQPPQPP 277

## RESULT 14

US-10-437-963-126258  
 ; Sequence 126258, Application US/10437963  
 ; Publication No. US20040123343A1

## GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; APPLICANT: Wu, Wei  
 ; APPLICANT: Boukharov, Andrey A.  
 ; APPLICANT: Barbazuk, Brad  
 ; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with  
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B  
 ; CURRENT APPLICATION NUMBER: US/10/437,963  
 ; CURRENT FILING DATE: 2003-05-14  
 ; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 126258

; LENGTH: 296

; TYPE: PRT

; ORGANISM: Oryza sativa

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_28822C.1.pep

US-10-437-963-126258

Query Match 24.5%; Score 222; DB 16; Length 296;  
 Best Local Similarity 43.6%; Pred. No. 1.6e-09;  
 Matches 65; Conservative 10; Mismatches 52; Indels 22; Gaps 9;

QY 6 PCSQELQSPQSYLQQYPQNPYLQKFPVQQPFHTPQQYFYLPEELFPQYQIPTPLQ 65  
 DB 143 PKEPEPEAQQTQ-QPPQQLHPQPPQPLQPLQLH-PQ-----PQQQ-PSQLH 188  
 QY 66 PQQPF-PQQPQPLPRQ-QFFPWQPPFPQ---QEP-IPQ---QPCQPPFPQPPFP 117  
 DB 189 PQQLLHPQSQTTPQPPQVHFQPPQPPQQLQPPQLQPLQLH-PQ-----PQQQ-PSQLH 188  
 QY 118 QPQOIIFQQPQSQSYVPQPPFPFPQPP 146  
 DB 249 LQLQSLHPQPPQPPQPPQPPQPP 277

## RESULT 15

US-10-628-969-10

; Sequence 10, Application US/10628969  
 ; Publication No. US20040181828A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Allen, Steve  
 ; APPLICANT: Zhu, Qun  
 ; TITLE OF INVENTION: PLANT GENES ENCODING DRI AND DRAP1, A GLOBAL REPRESSOR COMPLEX OF  
 ; TITLE OF INVENTION: TRANSCRIPTION  
 ; FILE REFERENCE: BB1107 US CIP  
 ; CURRENT APPLICATION NUMBER: US/10/628,969  
 ; CURRENT FILING DATE: 2003-07-28  
 ; PRIOR APPLICATION NUMBER: US/09/789,054A  
 ; PRIOR FILING DATE: 2001-02-20  
 ; PRIOR APPLICATION NUMBER: 09/485558  
 ; PRIOR FILING DATE: 2000-02-11  
 ; PRIOR APPLICATION NUMBER: PCT/US98/16688  
 ; PRIOR FILING DATE: 1998-08-12  
 ; PRIOR APPLICATION NUMBER: 60/055,865  
 ; PRIOR FILING DATE: 1997-08-15  
 ; NUMBER OF SEQ ID NOS: 69  
 ; SOFTWARE: Microsoft Office 97  
 ; SEQ ID NO 10  
 ; LENGTH: 296  
 ; TYPE: PRT  
 ; ORGANISM: Oryza sativa  
 US-10-628-969-10

Query Match 24.5%; Score 222; DB 16; Length 296;

Best Local Similarity 43.6%; Pred. No. 1.6e-09;

Matches 65; Conservative 10; Mismatches 52; Indels 22; Gaps 9;

QY 6 PCSQELQSPQSYLQQYPQNPYLQKFPVQQPFHTPQQYFYLPEELFPQYQIPTPLQ 65  
 DB 143 PKEPEPEAQQTQ-QPPQQLHPQPPQPLQPLQLH-PQ-----PQQQ-PSQLH 188  
 QY 66 PQQPF-PQQPQPLPRQ-QFFPWQPPFPQ---QEP-IPQ---QPCQPPFPQPPFP 117  
 DB 189 PQQLLHPQSQTTPQPPQVHFQPPQPPQQLQPPQLQPLQLH-PQ-----PQQQ-PSQLH 188  
 QY 118 QPQOIIFQQPQSQSYVPQPPFPFPQPP 146  
 DB 249 LQLQSLHPQPPQPPQPPQPPQPP 277

Search completed: November 10, 2004, 19:44:37

Job time : 145 secs